

ABSTRACT OF THE DISCLOSURE

A first electrode layer 12, a first piezoelectric film layer 13, a second electrode layer 14, a second piezoelectric film layer 15, and a third electrode layer 16 are layered in that order on a substrate 11; these are constrained so as not to expand or contract in a thickness direction and a piezoelectric transducer is constructed thereby. A plurality of gate lines 201 and 202, a plurality of data lines 203 and 204 intersecting with the gate lines, and thin film transistors 205 and 207, disposed at the intersections of the abovementioned gate lines and data lines, are established; one source-drain of the abovementioned thin film transistors is connected to the abovementioned data lines; another source-drain of the abovementioned thin film transistors is connected to the input sides of the abovementioned thin film piezoelectric transducers 208 through 210; the output sides of the abovementioned thin film piezoelectric transducers are connected to the electrodes of electrophoretic ink display elements; and an electrophoretic ink display apparatus is constructed thereby.